

## AMENDMENTS TO THE CLAIMS

Claims 1 - 9 (Cancelled).

10. (Previously presented) A process for producing a fluid mixture by mixing a first fluid, held in a first fluid line, and a second fluid, held in a second fluid line, said fluid mixture to be conducted within a third fluid line at least intermittently connected to said first fluid line and at least intermittently connected to said second fluid line, said process comprising the steps of:

- causing the first fluid to flow into said third fluid line;
- setting the flow of the first fluid in said first fluid line to zero;
- causing the second fluid to flow into said third fluid line,
- setting the flow of the second fluid in said second fluid line to zero; and
- measuring a volumetric or mass flow rate in at least two of the said three fluid lines,

wherein said steps of causing the first and second fluids to flow into the third fluid line are performed alternately and repeated several times.

11. (Currently Amended) [[A]] The process as set forth in claim 10, comprising the further step of measuring a volumetric or mass flow rate in at least one of the three fluid lines.

12. (Currently Amended) [[A]] The process as set forth in claim 10, comprising the further step of measuring a fluid density in at least one of the three fluid lines.

13. (Currently Amended) [[A]] The process as set forth in claim 10 comprising the further step of measuring a fluid viscosity in at least one of the

three fluid lines.

14. (Previously presented) A process for producing a fluid mixture of predeterminable mass and/or predeterminable volume by mixing a first fluid, held in a first fluid line, and a second fluid, held in a second fluid line, said fluid mixture to be conducted in a third fluid line at least intermittently connected to said first fluid line and at least intermittently connected to said second fluid line, the process comprising the steps of:

causing the first fluid to flow into a third fluid line,

measuring a volumetric or mass flow rate of the first fluid and generating a first measurement signal, which represents the measured flow rate of the first fluid;

measuring a totalized volumetric or mass flow rate of the first fluid and generating a first measured flow rate value, which represents the totalized flow rate of the first fluid;

determining, based on said first measured flow rate value, an instantaneous set point for a totalized volumetric or mass flow rate of the second fluid; and

causing the second fluid to flow into the third fluid line at least until the totalized volumetric or mass flow rate of the second fluid reaches the set point,

wherein said first and second fluids flow alternately into said third fluid line for producing said fluid mixture within said third fluid line.

15. (Currently Amended) [[A]] The process as set forth in claim 14, comprising the further step of measuring a volumetric or mass flow rate of the second fluid and generating a second measurement signal, which represents the measured flow rate of the second fluid.

16. (Previously presented) The process as claimed in claim 10, further comprising a step of conducting the fluid mixture within said third fluid line.

17. (Previously presented) The process as claimed in claim 10, wherein said first and second fluids flow essentially discontinuously in the third line for producing said fluid mixture within the third fluid line.

18. (Previously presented) The process as claimed in claim 17, wherein the said first and second fluids flow in a pulsating manner in the third line.

19. (Previously presented) The process as claimed in claim 10, further comprising steps of using a first flow adjuster inserted in said first fluid line for setting a flow rate of said first fluid and using a second flow adjuster inserted in said second fluid line for setting a flow rate of said second fluid.

20. (Previously presented) The process as claimed in the claim 19, wherein the said first and second fluids flow essentially discontinuously in the third line for producing said fluid mixture within the third fluid line.

21. (Previously presented) The process as claimed in the claim 20, wherein the said first and second fluids flow in a pulsating manner in the third line.

22. (Previously presented) The process as claimed in claim 10, wherein the first and second fluid lines are connected with said third fluid line at a junction.

23. (Previously presented) The process as claimed in claim 10, further comprising steps of: using a first control signal to control a first flow adjuster inserted in said first fluid line, said first flow adjuster setting a flow rate of said first fluid, and using a second control signal to control a second flow adjuster inserted in said second fluid line, said second flow adjuster setting a flow rate of said second fluid.

24. (Previously presented) The process as claimed in the claim 23, further comprising a step of controlling a mixing ratio of said fluid mixture by a ratio of pulse widths of said first and second control signals, said mixing ratio representing a relation of said first fluid in the mixture to said second fluid in the mixture.

25. (Previously presented) The process as claimed in claim 14, wherein the fluid mixture is conducted in the third fluid line.

26. (Previously presented) The process as claimed in claim 25, wherein the said first and second fluids flow essentially discontinuously in the third line for producing said fluid mixture within the third fluid line.

27. (Previously presented) The process as claimed in claim 26, wherein the said first and second fluids flow in a pulsating manner in the third line.

28. (Previously presented) The process as claimed in claim 14, wherein the fluid mixture is produced from said first and second fluids flowing in the third fluid line.

29. (Previously presented) The process as claimed in claim 28, wherein the said first and second fluids flow essentially discontinuously in the third line for producing said fluid mixture within the third fluid line.

30. (Previously presented) The process as claimed in claim 29, wherein the said first and second fluids flow in a pulsating manner in the third line.

31. (Previously presented) The process as claimed in claim 14, wherein the first and second fluid lines are connected with said third fluid line at a junction.

32. (Previously presented) The process as claimed in claim 14, wherein a flow rate of said first fluid is set with a flow adjuster, which is inserted in said first fluid line and which is controlled with a first control signal, and wherein a flow rate of said second fluid is set with a flow adjuster, which is inserted in said second fluid line and which is controlled with a second control signal.

33. (Previously presented) The process as claimed in claim 32, further comprising a step of controlling a mixing ratio of said fluid mixture by a ratio of pulse widths of said first and second control signals, said mixing ratio representing a relation of said first fluid in the mixture to said second fluid in the mixture.

34. (Previously presented) The process as claimed in claim 14, further comprising a step of measuring a volumetric or mass flow rate of the fluid mixture in the third line.

35. (Previously presented) A process for producing a fluid mixture of predeterminable mass and/or predeterminable volume by mixing a first fluid, held in a first fluid line, and a second fluid, held in a second fluid line, said fluid mixture to be conducted in a third fluid line at least intermittently connected to said first fluid line and at least intermittently connected to said second fluid line, said process comprising the steps of:

causing the first fluid to flow into said third fluid line; setting the flow of the first fluid in the first fluid line to zero; causing the second fluid to flow into the third fluid line;

setting the flow of the second fluid in the second fluid line to zero; and measuring a density of the fluid in at least two of the three fluid lines

wherein said steps of causing the first and second fluids to flow into the third fluid line are performed alternately and repeated several times.

36. (Previously presented) The process as claimed in claim 35, further comprising a step of measuring a viscosity of the fluid in at least one of the three fluid lines.

37. (Previously presented) The process as claimed in claim 35, further comprising a step of measuring a volumetric or mass flow rate in at least one of the three fluid lines.

38. (Previously presented) A process for producing a fluid mixture of predeterminable mass and/or predeterminable volume by mixing a first fluid, held in a first fluid line, and a second fluid, held in a second fluid line, said fluid mixture to be conducted in a third fluid line at least intermittently connected to said first fluid line and at least intermittently connected to said second fluid line, said process comprising the steps of:

causing the first fluid to flow into said third fluid line; setting the flow of the first fluid in the first fluid line to zero; causing the second fluid to flow into the third fluid line;

setting the flow of the second fluid in the second fluid line to zero;  
and

measuring a viscosity of the fluid in at least two of the three fluid lines  
wherein said steps of causing the first and second fluids to flow into the third fluid line are performed alternately and repeated several times.

39. (Previously presented) The process as claimed in claim 38, further comprising a step of measuring a density of the fluid in at least one of the three fluid lines.

40. (Previously presented) The process as claimed in claim 38, further comprising a step of measuring a volumetric or mass flow rate in at least one of the three fluid lines.